13 Elements of Stormwater Pollution Prevention Plans

- Mark Clearing Limits
- Sestablish Construction
 Access
- Control Flow Rates
- Install Sediment
 Controls
- Stabilize Soils
- Protect Slopes

- Protect Drain Inlets
- Stabilize Channels& Outlets
- **Sontrol Pollutants**
- Sontrol De-watering
- Maintain BMPs
- Manage the Project
- Protect LID BMPs

SWPPP Element 13:

Protect Low Impact Development (LID) BMPs

WHY:

Reduce the disruption of the natural site hydrology.

Compacted soils do not infiltrate

LID BMPs are permanent facilities.

Save time and money by not ruining soil structure.

WHEN:

Before beginning land-disturbing activities

WHAT:

Mark off all LID BMPs with infiltration

HOW:

With fences, barriers, flagging and signage.

WHEN:

After excavation to final grade.

What

Protect LID BMPs from compaction Protect LID BMPs from siltation

13. Protect Low Impact Development (LID) BMPs

The primary purpose of LID BMPs/On-site LID Stormwater Management BMPs is to reduce the disruption of the natural site hydrology. LID BMPs are permanent facilities.

- Permittees must protect all Bioretention and Rain Garden facilities from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the Bioretention and/or Rain Garden facilities. Restore the facilities to their fully functioning condition if they accumulate sediment during construction. Restoring the facility must include removal of sediment and any sediment-laden Bioretention/Rain Garden soils, and replacing the removed soils with soils meeting the design specification.
- Permittees must maintain the infiltration capabilities of Bioretention and Rain Garden facilities by protecting against compaction by construction equipment and foot traffic. Protect completed lawn and landscaped areas from compaction due to construction equipment.
- c. Permittees must control erosion and avoid introducing sediment from surrounding land uses onto permeable pavements. Do not allow muddy construction equipment on the base material or pavement. Do not allow sediment-laden runoff onto permeable pavements.
- d. Permittees must clean permeable pavements fouled with sediments or no longer passing an initial infiltration test using local stormwater manual methodology or the manufacturer's procedures.
- e. Permittees must keep all heavy equipment off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.

- a. Protect Bioretention & Rain Garden facilities

 Remove Sediment Fouled Soils & Replace with designed Soils
- b. Protect from Compaction Facilities <u>must</u> infiltrate Lawn & landscaped areas included
- c. Protect permeable pavements from sediment

 Before, during and after instillation No muddy traffic or flows
- d. Clean fouled permeable pavers if fouled
- e. Keep Off LID facilities at final grade Retain infiltration rates

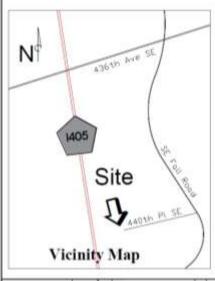
Told 2016 Ag. Asst. Project

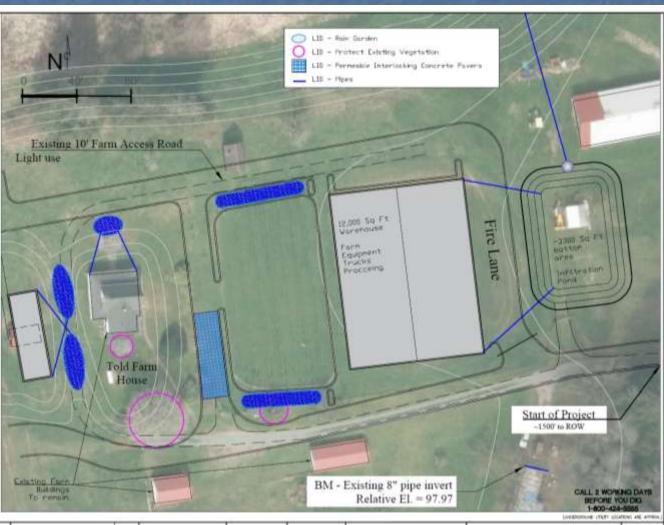
PROJECT SCOPE:

All work will be done following the Ag. BMP Manual

New Warehouse, guest residence, parking lot, pervious pover drive, and upgraded access road

LID Rain Gardens, one for house, two for guest residence, two for parking lot.





King County

Department of Values Executed in

Trible and Land Februaries Districts

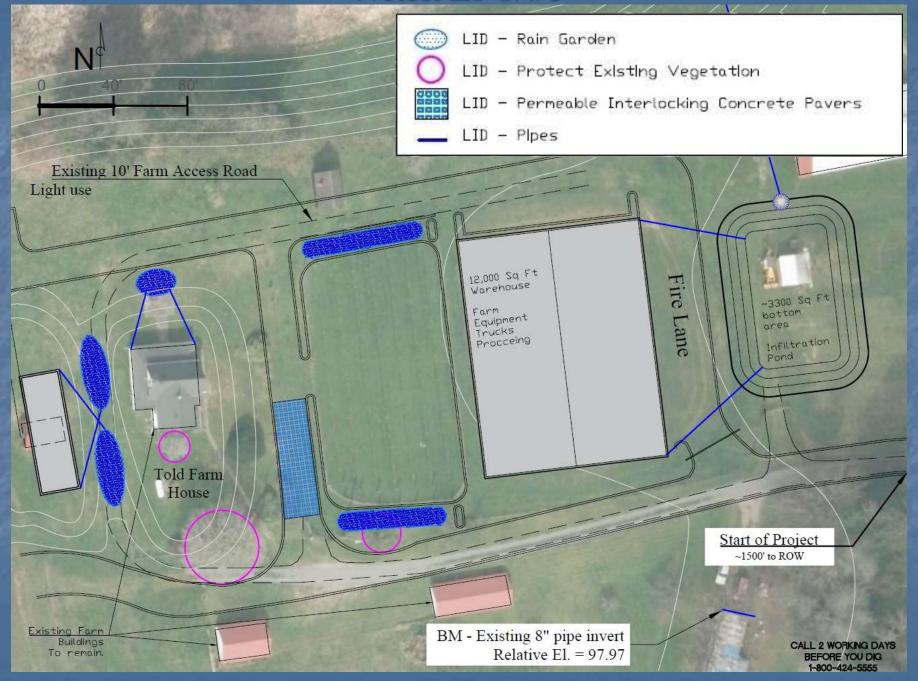
Statement Land Februaries Districts

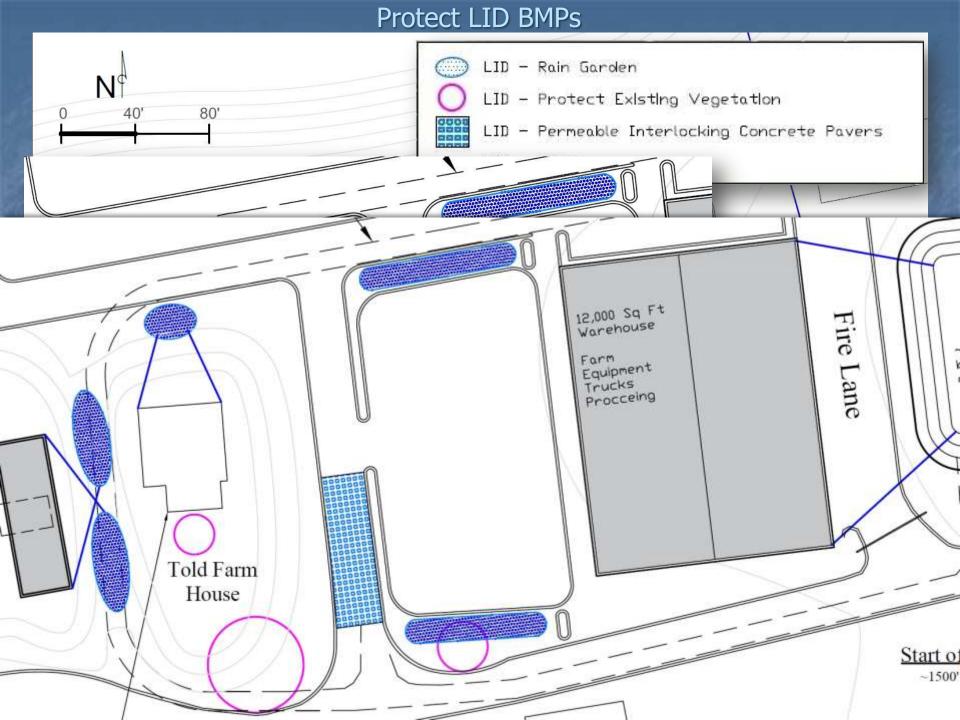
Statement Land Februaries

Stateme

Told 2014 Farm Expansion Ag. Assistance Project 440 SE Fall Road Cotton, WA 98041 LID - Aerial Plan + Vicinity 1 or 3 secos

Protect LID BMPs





- Permittees must protect all Bioretention and Rain Garden facilities from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the Bioretention and/or Rain Garden facilities.
- Restore the facilities to their fully functioning condition if they accumulate sediment during construction.
- Restoring the facility must include removal of sediment and any sediment-laden Bioretention/Rain Garden soils, and replacing the removed soils with soils meeting the design specification.

- Permittees must maintain the infiltration capabilities of Bioretention and Rain Garden facilities by protecting against compaction by construction equipment and foot traffic.
- Protect completed lawn and landscaped areas from compaction due to construction equipment.



- Permittees must control erosion and avoid introducing sediment from surrounding land uses onto permeable pavements.
- Do not allow muddy construction equipment on the base material or pavement.

Do not allow sediment-laden runoff onto permeable

pavements.



Permittees must clean permeable pavements fouled with sediments or no longer passing an initial infiltration test using local stormwater manual methodology or the manufacturer's procedures.



http://www.pavedrain.com/



 Permittees must keep all heavy equipment off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.



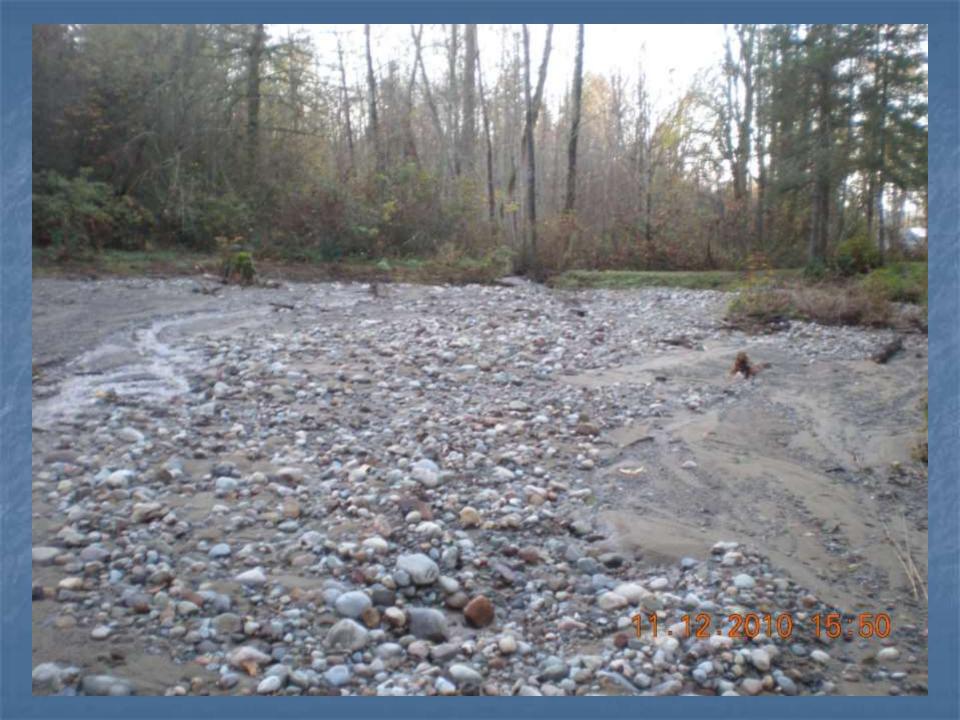


- To the most extent practicable:
 - do not disturbed native vegetation and soil
 - protect final grade soils from the compaction of roads and storage areas
- Protect facilities with fencing
- Restore facilities that are compromised
- Protect LID infiltration facilities from sedimentation









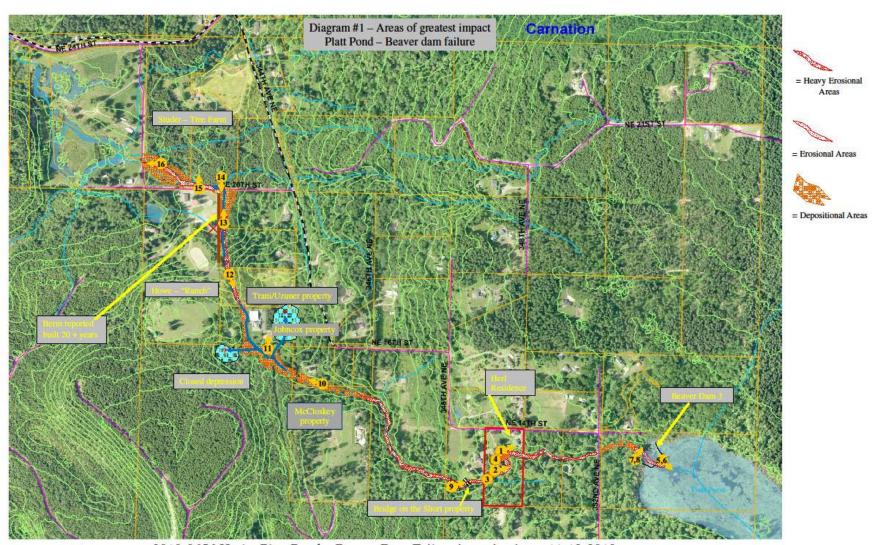












2010-0656 Herl – Platt Pond – Beaver Dam Failure investigation – 11-12-2010